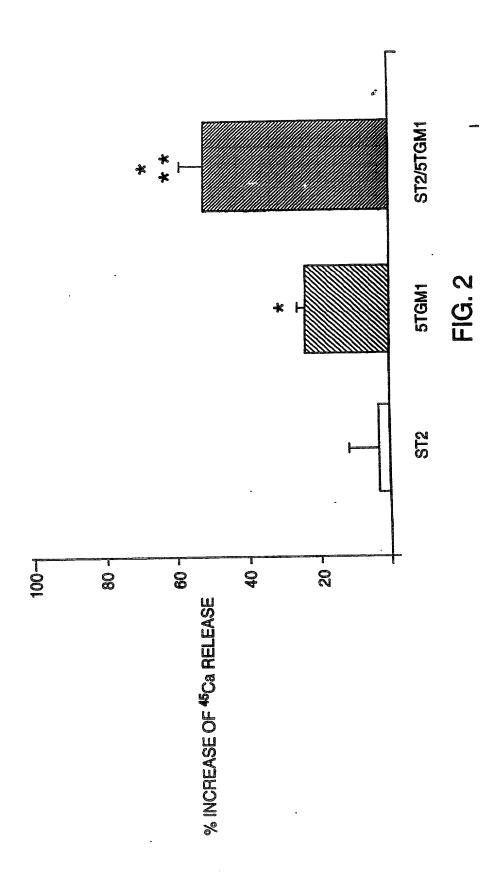
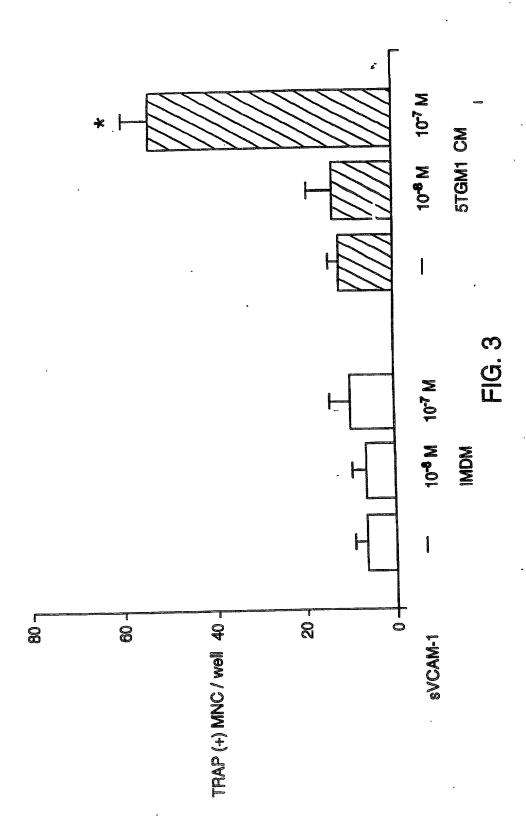
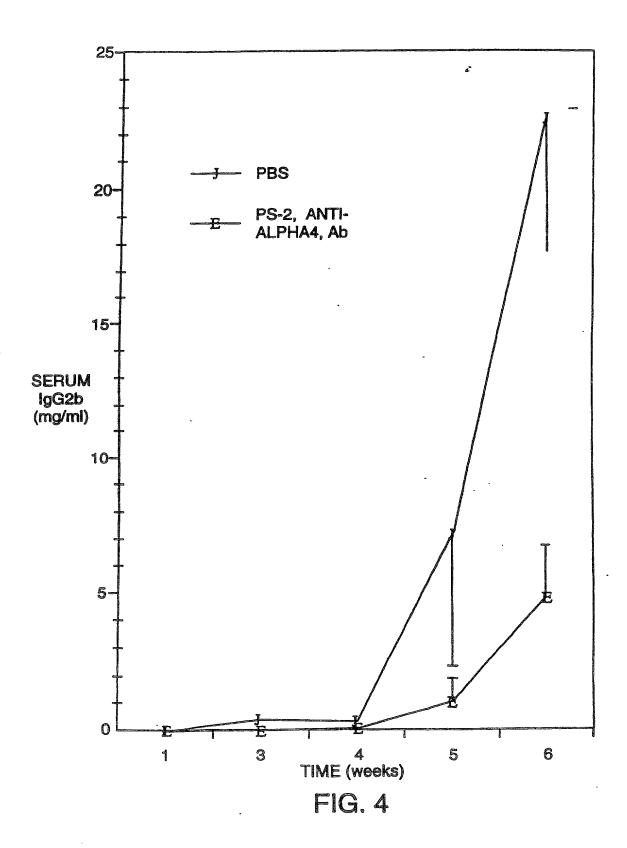
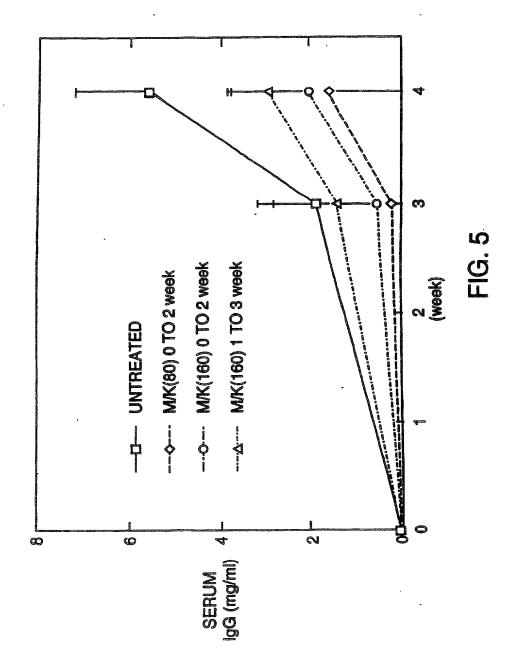


Docket No: A061CIP1
Application No.: 09/943,659 - Confirmation No.: 2421
Inventor: MUNDY et al.
Title: Methods of Treating Multiple Myeloma and
Myeloma-Induced Bone Resorption Using Integrin
Antagonists

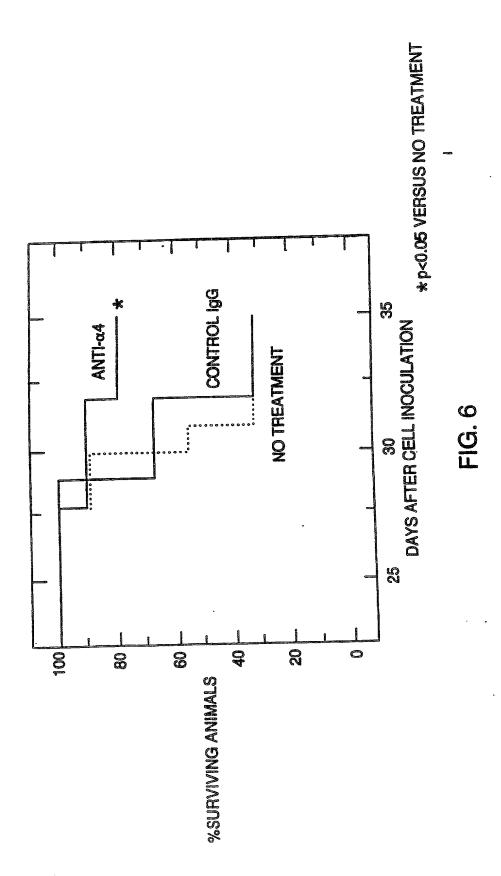




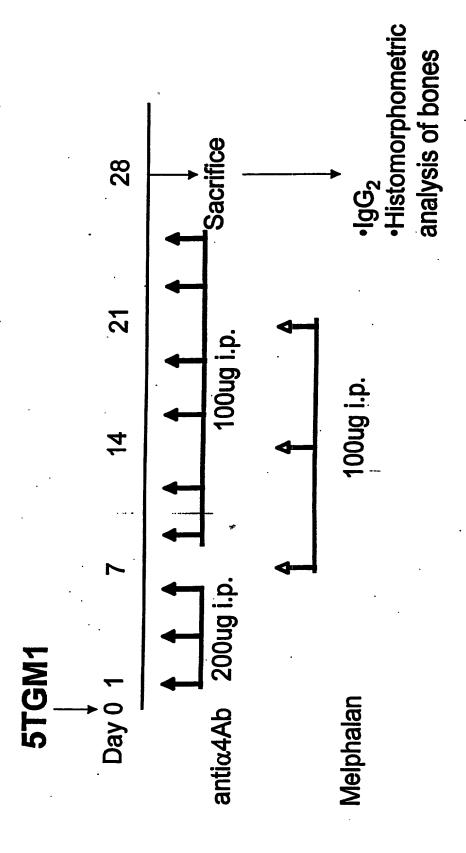




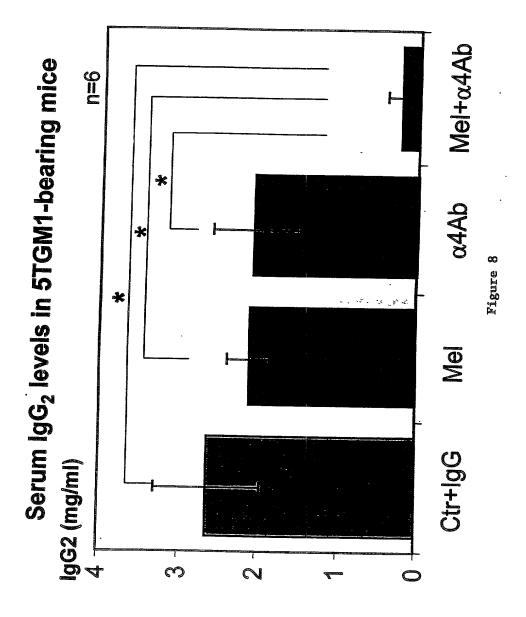
Docket No: A061CIP1
Application No.: 09/943,659 - Confirmation No.: 2421
Inventor: MUNDY et al.
Title: Methods of Treating Multiple Myeloma and
Myeloma-Induced Bone Resorption Using Integrin
Antagonists



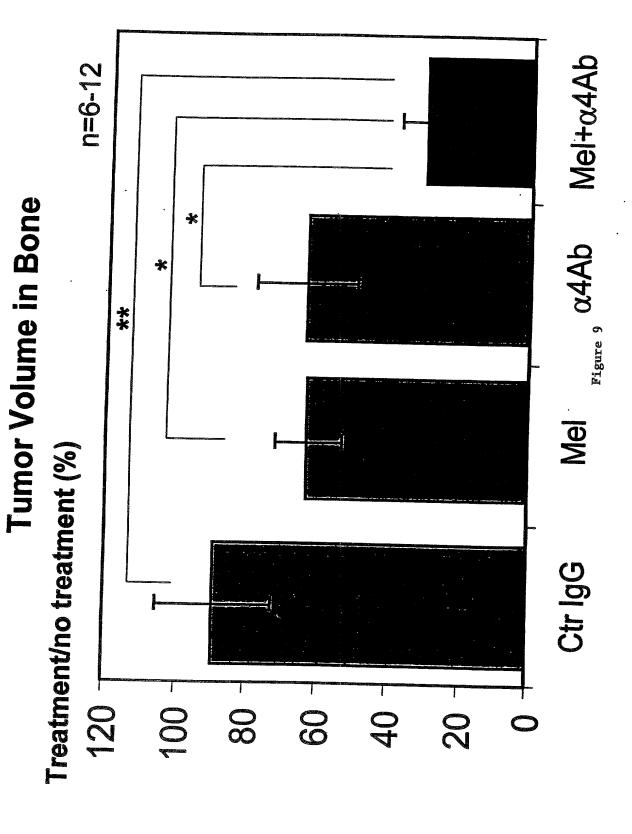
Experimental Protocol



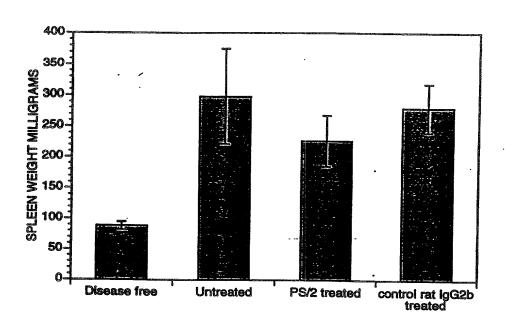
Pigure







EFFECT OF PS/2 mAb TREATMENT ON SPLEEN WEIGHT



EFFECT OF PS/2 TREATMENT ON SPLENOCYTES IN MICE WITH 5TGM1 MYELOMA

Docket No: A061CIP1
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Title: Methods of Treating Multiple Myeloma and
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Antagonists

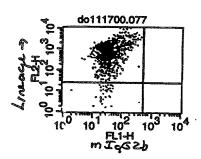
disease free
Untreated Control
PS/2 treated
rat lgG2b Treated Control

35-C 25-C 25-C

Figure 11

EFFECT OF PS/2 mAb TREATMENT ON SPLENOCYTE FACS PROFILE

DISEASE FREE



File: do111700.077

Acquisition Date: 17-Nov-00

Gate: G1

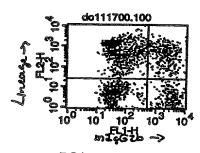
Gated Events: 9624

Total Events: 10707

Quad Location: 523, 25

Quad	Events	% Gated	% Total	X Mean	Y Mean
UL	9499	98.70	88.72	37.11	1120.67
UR	3	0.03	0.03	5084.96	773.52
ᄔ	122	1.27	1.14	31.88	11.09
LR	0	0.00	0.00	***	999

UNTREATED



File: do111700.100

Acquisition Date: 17-Nov-00

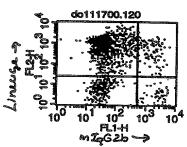
Gate: G1

Total Events: 11100

Gated Events: 9526 Quad Location: 523, 25

Quad	Events	% Galed	% Total	X Mean	Y Mean
UL	4959	52.06	44.68	84.30	1023.41
UR	1388	14.57	12.50	2377.81	704.20
ᄔ	2163	22.71	19.49	50.53	6.64
LR	1016	10.67	9.15	3619.03	4.05

PS/2 TREATED



File: do111700.120

Acquisition Date: 17-Nov-00

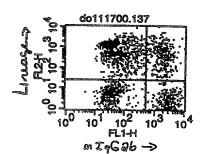
Gate: G1 Total Events: 10934

Gated Events: 9561

Quad Location: 523, 25

Quad	Events	% Gated	% Total	X Mean	Y Mean
UL	7868	82.29	71.96	58.00	1139.33
UR	310	3.24	2.84	1922.82	897.47
ᄔ	1171	12.25	10.71	42.10	8.17
LR	212	2.22	1.94	3153.17	3.62

rat IgG2b TREATED



File: do111700.137

Acquisition Date: 17-Nov-00

Gate: G1

Gated Events: 9595

Total Events: 10970

Quad Location: 523, 25

Quad	Events	% Gated	% Total	X Mean	Y Mean
UL	4910	51.17	44.76	84.95	975.19
UR	1384	14.42	12.62	1937.36	694.49
ш	1704	17.76	15.53	48.67	7.00
LR	1597	16.64	14.56	3286.15	2.68

Figure 12

EFFECT OF PS/2 mAb TREATMENT ON SPEEN TUMOR BURDEN

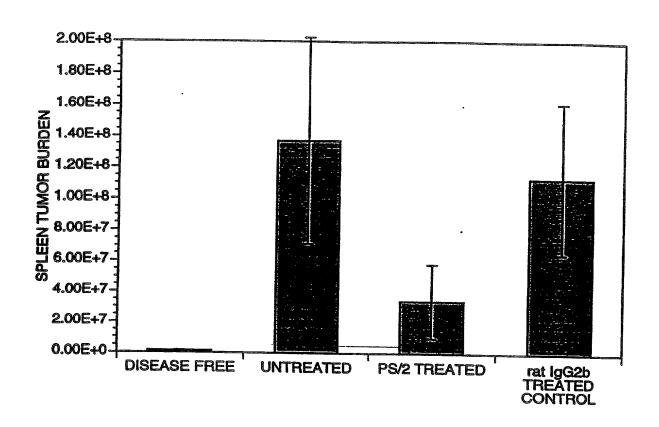


Figure 13

EFFECT OF PS/2 mAB TREATMENT ON BONE MARROW CELLS IN MICE WITH 5TGM1 MYELOMA

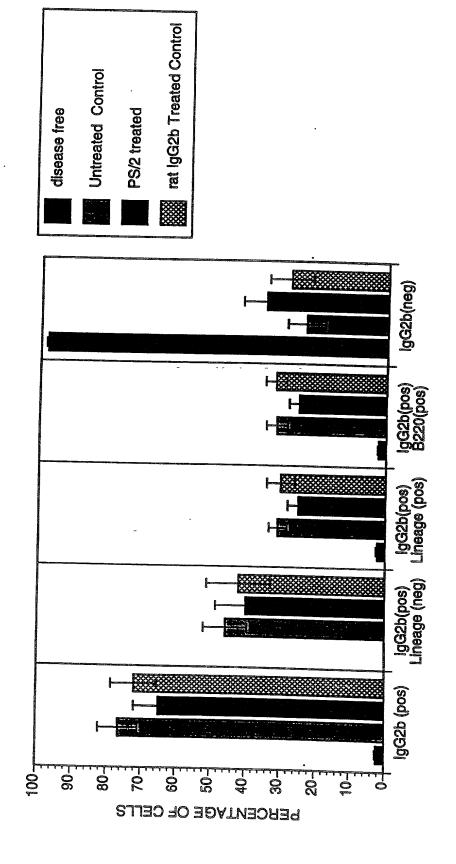


Figure 14

EFFECT OF PS/2 TREATMENT ON BONE MARROW TUMOR BURDEN mlgG2b POSITIVE CELLS

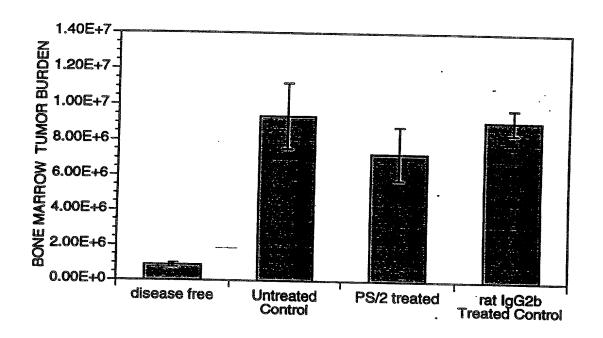


Figure 15

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Inventor: MUNDY et al.

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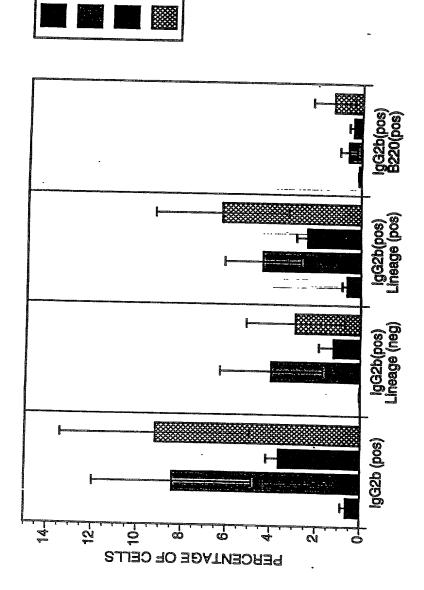
rat IgG2b Treated Control

Untreated Control

PS/2 treated

disease free

EFFECT OF PS/2 mAb TREATMENT ON STGM1 CELLS IN THE BLOOD



EFFECT OF PS/2 TREATMENT ON BLOOD CHEMISTRY

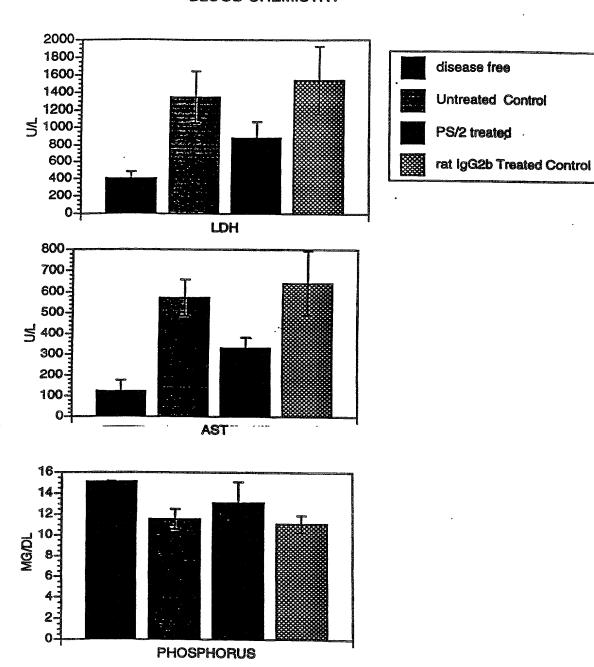
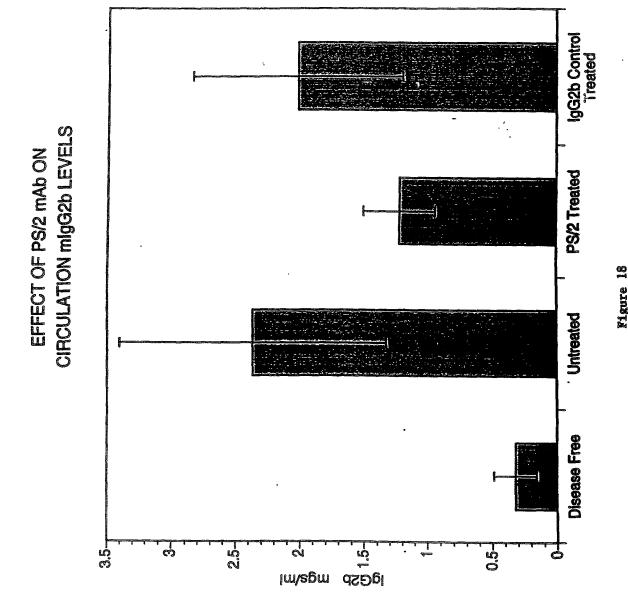


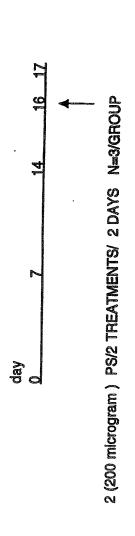
Figure 17

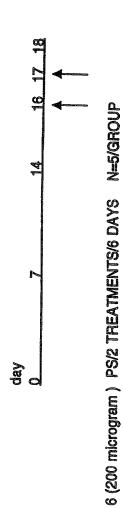


Antagonists

C57/BI KaLwRaj MULTIPLE MYELOMA MODEL ACUTE TREATMENT PROTOCOLS

1 (200 microgram) PS/2 TREATMENT / 1 DAY N=3/GROUP





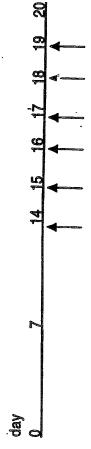


Figure 19

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EFFECT OF PS/2 TREATMENT ON IGG2b POSITIVE CELLS ACUTE TREATMENT MODEL

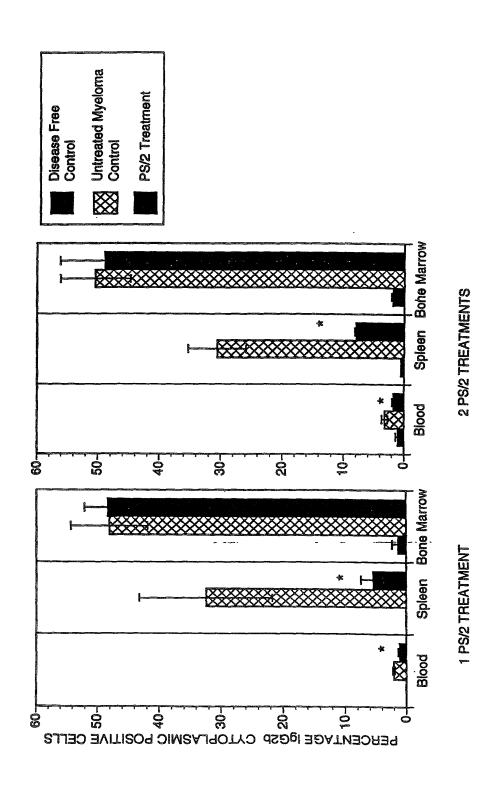
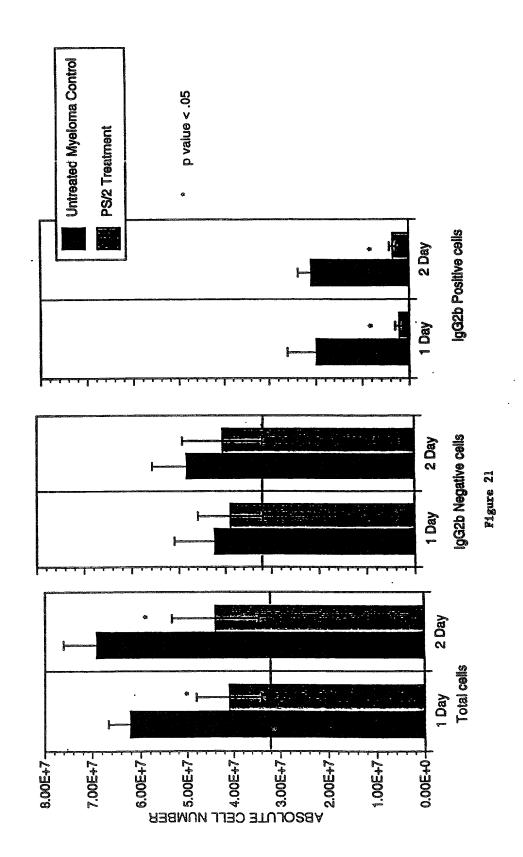


Figure 20

Antagonists

EFFECT OF ANTI VLA-4 ANTIBODY PS/2 ON TUMOR BURDEN IN SPLEEN



EFFECT OF 6 DAYS OF PS/2 TREATMENT

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Disease Free Control Untreated Control PS/2 Treatment

* p value < .05

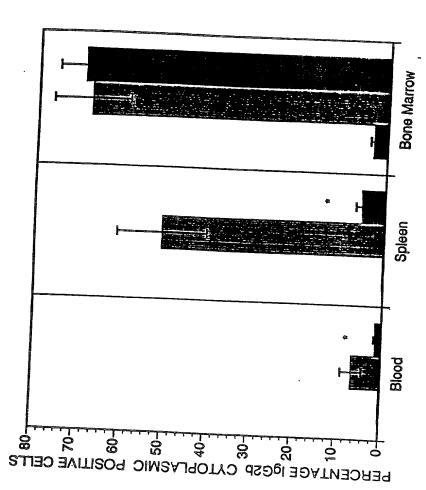
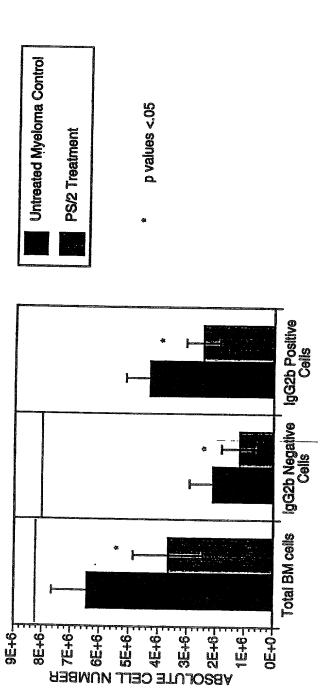
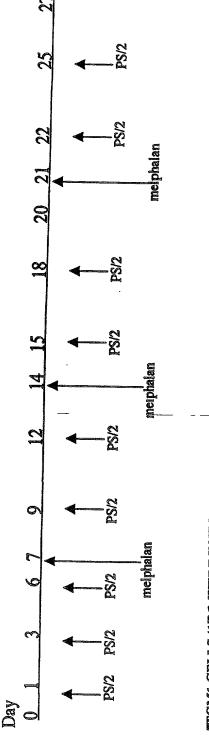


Figure 22

EFFECT OF 6 DAYS OF PS/2 TREATMENT ON BONE MARROW CELLS



C57/BIKaLwRaj MODEL OF MULTIPLE MYELOMA COMBINATION TREATMENT WITH PS/2 AND MELPAHLAN



STGM1 CELLS (1E6) WERE INJECTED (I.V.) ON DAY 0
EFFECTIVNESS OF TREATMENT WAS EVALUATED ON DAY 20 AND DAY 27

GROUPS N=3/GROUP

DISEASE FREE CONTROL
UNTREATED MYELOMA CONTROL
MELPHALAN TREATMENT-- 100 MICROGRAMS/INJECTION
PS/2 TREATMENT --- 100 MICROGRAMS/INJECTION
MELPHALAN AND PS/2
MELPAHLAN AND rigG2b ISOTYPE CONTROL

Figure 24

EFFECT OF TREATMENT ON migG2b PLASMA LEVELS

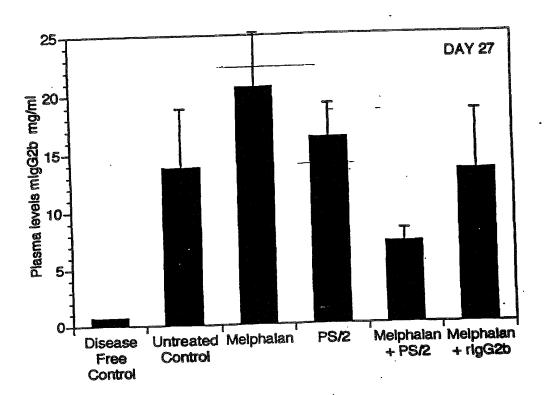
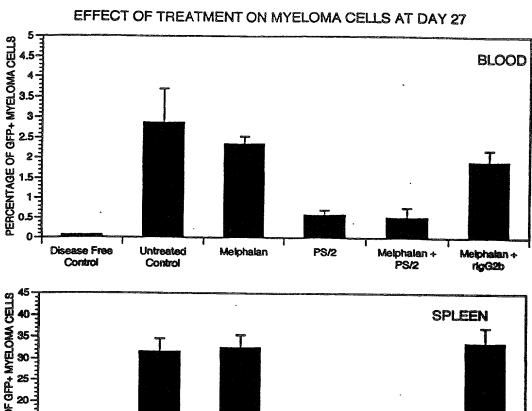
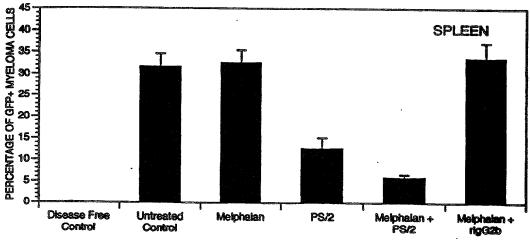


Figure 25





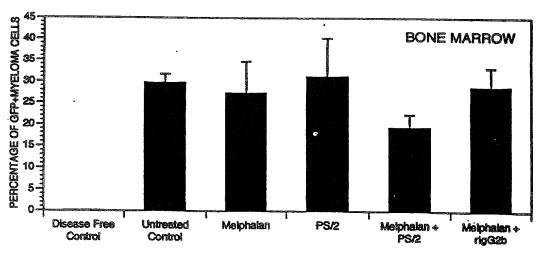
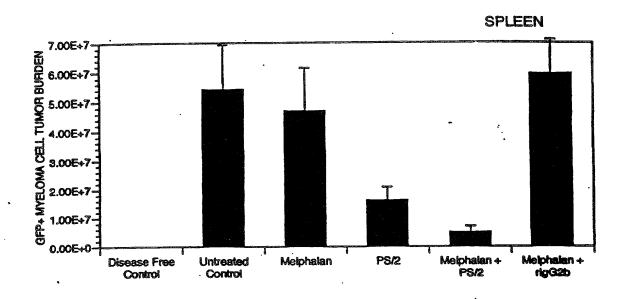


Figure 26

EFFECT OF TREATMENT ON TUMOR BURDEN AT DAY 27



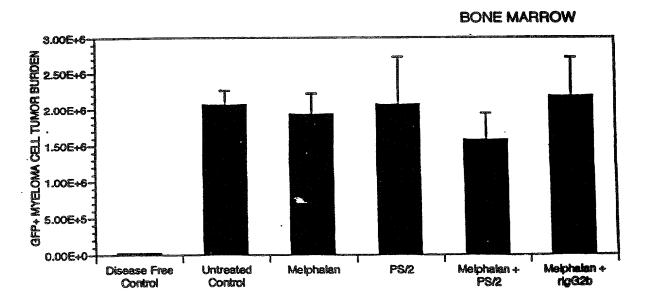
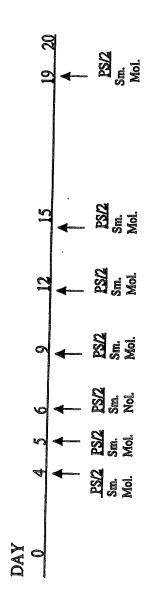


Figure 27

	Day 20	day 27
	PS/2 Plasma levels	PS/2 Plasma levels
8-PS/2	none detected	none detected
9-PS/2	none detected	none detected
10-PS/2	none detected	none detected
11-melphalan+PS/2	none detected	none detected
12-melphalan+PS/2	3.7 µg/ml	none detected
13-melphalan+PS/2	none detected	none detected

C57/BIKaLwRaj MODEL OF MULTIPLE MYELOMA PS/2 AND ANTI VLA4 SMALL MOLECULE LONG TERM TREATMENT

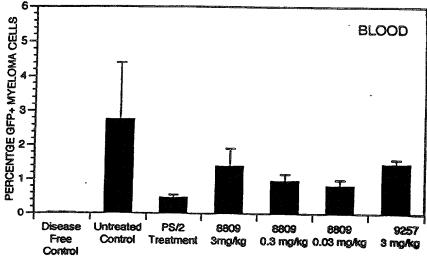


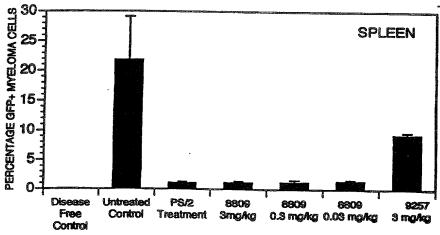
STGM1 CELLS (1E6) INJECTED(I.V.) ON DAY 0 EFFECTIVNESS OF TREATMENT WAS EVALUATED ON DAY 20

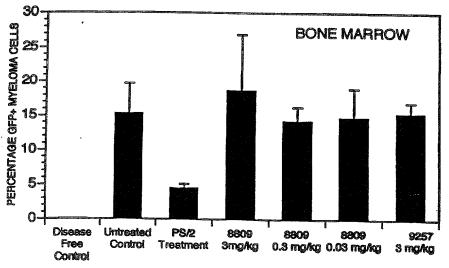
GROUPS N=2/GROUP
DISBASE FREE CONTROL
UNTREATED MYELOMA CONTROL
PS/2 -- 100 micrograms/injection
Sm. Mol . 8809--3 mg/kg, 0.3 mg/kg or 0.03 mg/kg
Sm. Mol. 9257 CONTROL -- 3 mg/kg

Figure 29

EFFECT OF LONG TERM TREATMENT ON MYELOMA CELLS







EFFECT OF LONG TERM TREATMENT ON TUMOR BURDEN

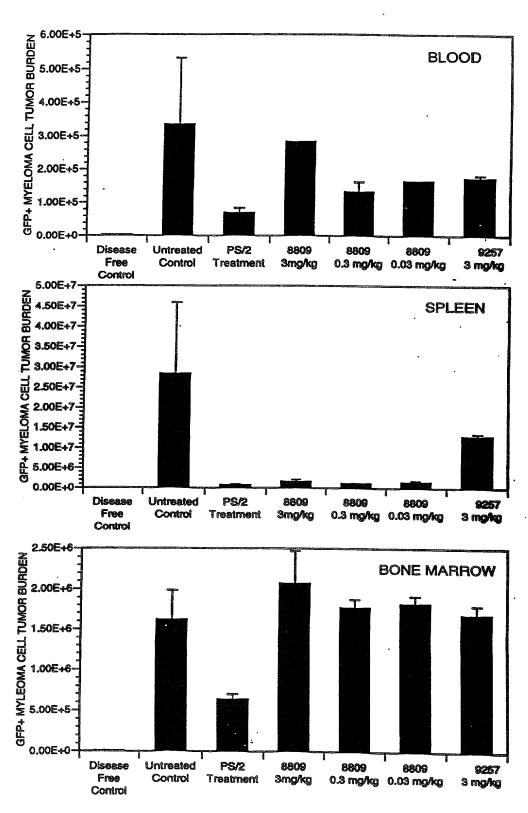
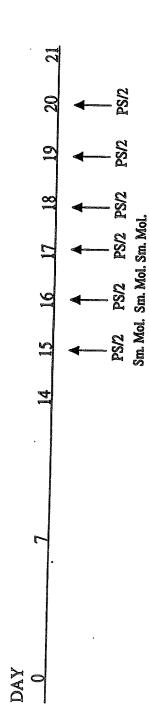


Figure 31

C57/BIKaLwRaj MODEL OF MULTIPLE MYELOMA PS/2 AND ANTI VLA4 SMALL MOLECULE ACUTE TREATMENT



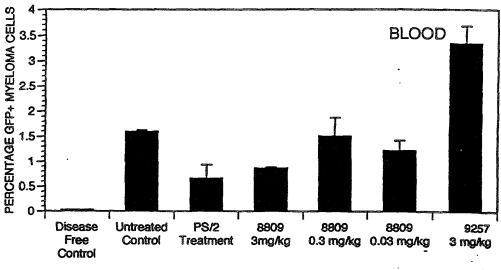
5TGM1 CELLS (1E6) INJECTED(I.V.) ON DAY 0
PS/2 WAS GIVEN ON DAYS 15,16,17,18,19 AND 20
SMALL MOLECULE WAS GIVEN ON DAYS 15, 16 AND 17
EFFECTIVNESS OF TREATMENT WAS EVALUATED ON DAY 21

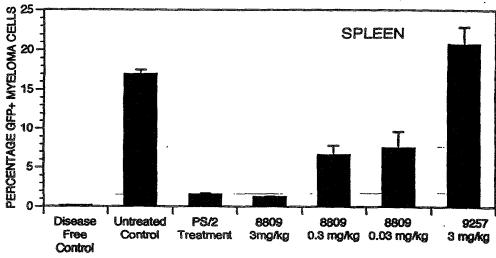
GROUPS N=2/GROUP
DISEASE FREE CONTROL
UNTREATED MYELOMA CONTROL
PS/2 --100 micrograms/injection
8809--3 mg/kg, 0.3 mg/kg or 0.03 mg/kg
9257 CONTROL -- 3 mg/kg

Figure 32

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Title: Methods of Treating Multiple Myeloma and
Myeloma-Induced Bone Resorption Using Integrin
Antagonists

EFFECT OF ACUTE TREATMENT ON MYELOMA CELLS





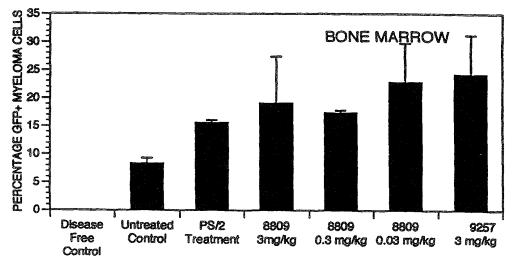
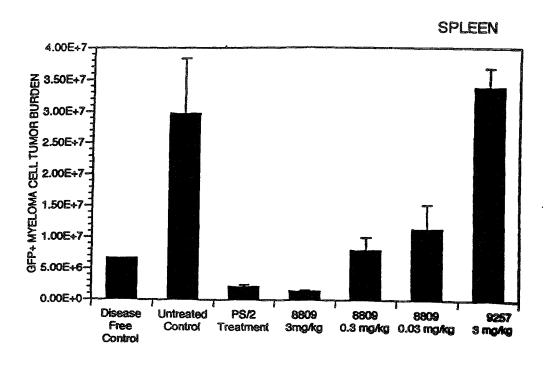


Figure 33

EFFECT OF ACUTE TREATMENT ON TUMOR BUREN



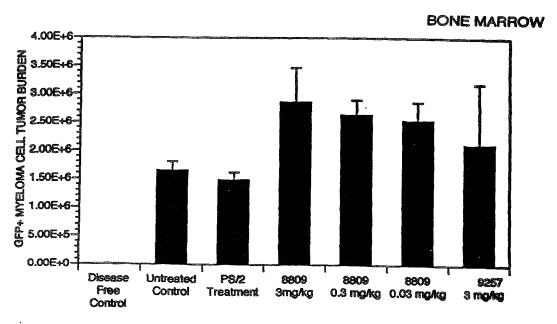


Figure 34

Experimental Protocol

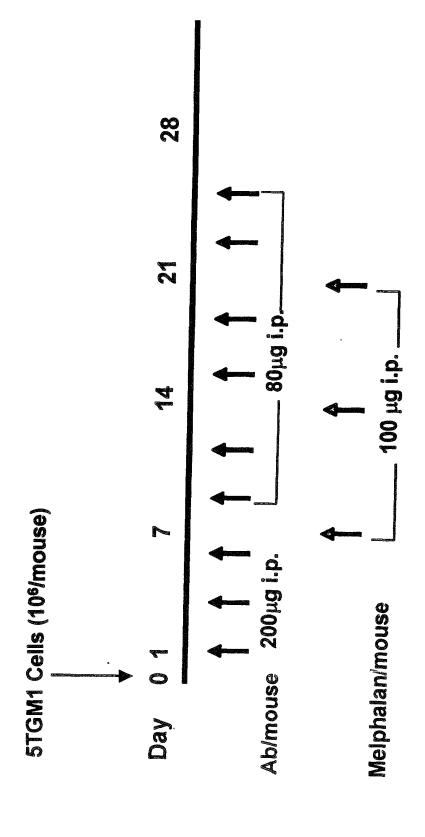


Figure 35

Inhibition of Hindleg Paralysis

